



### GLASS PASSIVATED JUNCTION FAST SWITCHING RECTIFIERS

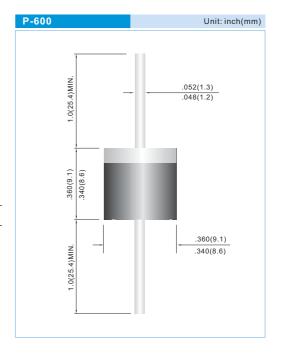
VOLTAGE 50 to 600 Volts CURRENT 6.0 Amperes

### **FEATURES**

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O utilizing Flame Retardant Epoxy Molding Compound.
- · Glass passivated junction in P600 package.
- Exceeds environmental standards of MIL-S-19500/228
- 6 ampere operation at T<sub>△</sub>=60°C with no thermal runaway.
- Fast switching for high efficiency.Lead free in compliance with EU RoHS 2011/65/EU directive

#### **MECHANICAL DATA**

- · Case: Molded plastic, P600
- Terminals: Axial leads, solderable to MIL-STD-750, Method 2026
- · Polarity: Color Band denotes cathode end
- · Mounting Position: Any
- Weight: 0.0719 ounce, 2.04 gram



### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.

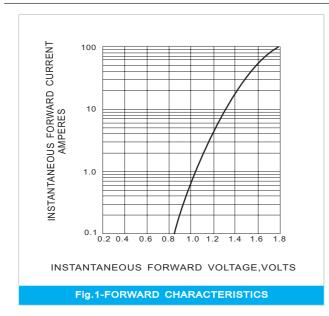
PARAMETER	SYMBOL	PG600R	PG601R	PG602R	PG604R	PG606R	UNITS
Maximum Recurrent Peak Reverse Voltage		50	100	200	400	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	V
Maximum Average Forward Current .375"(9.5mm) lead length at T <sub>A</sub> =60°C	I <sub>F(AV)</sub>			А			
Peak Forward Surge Current : IFM (surge): 8.3ms single half sinewave superimposed on rated load(JEDEC method)	I <sub>FSM</sub>	250					А
Maximum Forward Voltage at 6.0A	V <sub>F</sub>	1.3					V
Maximum Full Load Reverse Current Full Cycle Average at $T_{\rm J}{=}25^{\rm o}{\rm C}$ Maximum DC Reverse Current at Rated DC Blocking Voltage $T_{\rm J}{=}100^{\rm o}{\rm C}$	I <sub>R</sub>	1.0 200					μΑ
Maximum Reverse Recovery Time(Note 1)	t <sub>rr</sub>	150			250	ns	
Typical Junction capacitance (Note 2)	C¹	300					pF
Typical Junction Resistance at .375" (9.5mm) lead length	R <sub>eJA</sub>	10					°C / W
Operating and Storage Temperature Range	$T_J, T_{STG}$	-50 to +150					°C

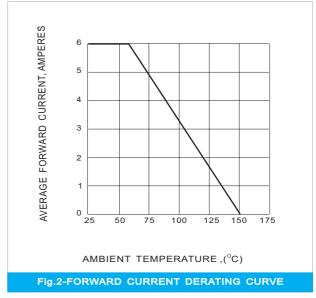
NOTES:1. Reverse Recovery Test Conditions: I<sub>F</sub>=.5A, I<sub>R</sub>=1A, I<sub>rr</sub>=.25A

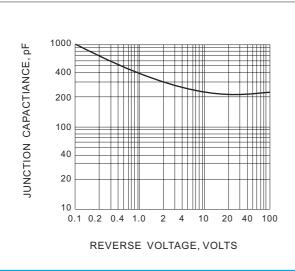
2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC











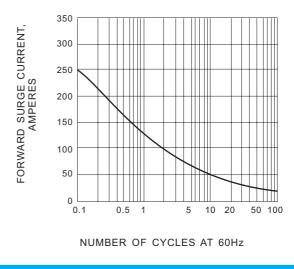
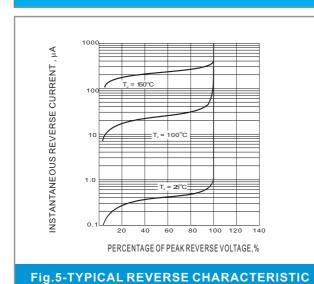


Fig.3-TYPICAL JUNCTION CAPACITANCE

Fig.4-PEAK FORWARD SURGE CURRENT



STAD-MAR.03.2009 PAGE . 2





## Part No\_packing code\_Version

PG600R\_AY\_00001

PG600R\_AY\_10001

PG600R\_B0\_00001

PG600R\_B0\_10001

PG600R\_R2\_00001

PG600R\_R2\_10001

## For example:



Packing Code XX				Version Code XXXXX				
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code		
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number		
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number		
Bulk Packing (B/P)	В	13"	2					
Tube Packing (T/P)	Т	26mm	X					
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y					
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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